

Serial Number:

09593,793A

ENTERED

RECEIVED

NOV 29 2000

TECH CENTER 1600/2900

#6

- ☐ Changed a file from non-ASCII to ASCII
- ☐ Changed the margins in cases where the sequence text was "wrapped" down to the next line.
- ☐ Edited a format error in the Current Application Data section, specifically:
- ☐ Edited the Current Application Data section with the actual current number. The number inputted by the applicant was ☐ the prior application data; or ☐ other
- ☐ Added the mandatory heading and subheadings for "Current Application Data".
- ☐ Edited the "Number of Sequences" field. The applicant spelled out a number instead of using an integer.
- ☐ Changed the spelling of a mandatory field (the headings or subheadings), specifically:
- ☐ Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were:
- ☐ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited:
- ☐ Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place.
- ☐ Inserted colons after headings/subheadings. Headings edited included:
- ☐ Deleted extra, invalid, headings used by an applicant, specifically:
- ☐ Deleted: ☐ non-ASCII "garbage" at the beginning/end of files; ☐ secretary initials/filename at end of file; ☐ page numbers throughout text; ☐ other invalid text, such as
- ☐ Inserted mandatory headings, specifically:
- ☐ Corrected an obvious error in the response, specifically:
- ☐ Edited identifiers where upper case is used but lower case is required, or vice versa.
- ☐ Corrected an error in the Number of Sequences field, specifically:
- ☐ A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted.
- ☐ Deleted *ending* stop codon in amino acid sequences and adjusted the "(A)Length:" field accordingly (error due to a Patent bug). Sequences corrected:
- ☒ Other: Sequence 537 - fixed amino acid numbering

Examiner: The above corrections must be communicated to the applicant in the first Office Action. DO NOT send a copy of this form.

1631

RAW SEQUENCE LISTING
 PATENT APPLICATION: US/09/593,793A DATE: 11/16/2000
 TIME: 14:38:51

Input Set : A:\427c15.app
 Output Set: N:\CRF3\11162000\I593793A.raw

Does Not Comply
 Corrected Diskette Needed

3 <110> APPLICANT: Xu, Jiangchun
 4 Dillon, Davin C.
 5 Mitcham, Jennifer L.
 6 Harlocker, Susan L.
 7 Jiang, Yuqui
 8 Reed, Steven G.
 9 Kalos, Michael D.
 10 Fanger, Gary R.
 11 Retter, Marc W.
 12 Stolk, John A.
 13 Day, Craig H.
 14 Vedvick, Thomas S.
 15 Carter, Darrick
 16 Li, Samuel
 17 Wang, Aijun
 18 Skeiky, Yasir A.W.
 19 Helper, William
 21 <120> TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THERAPY AND
 22 DIAGNOSIS OF PROSTATE CANCER
 24 <130> FILE REFERENCE: 210121.42715C15
 C--> 26 <140> CURRENT APPLICATION NUMBER: US/09/593,793A
 C--> 27 <141> CURRENT FILING DATE: 2000-06-13
 29 <160> NUMBER OF SEQ ID NOS: 814
 31 <170> SOFTWARE: FastSEQ for Windows Version 3.0

ERRORED SEQUENCES

10945 <210> SEQ ID NO: 537
 10946 <211> LENGTH: 1228
 10947 <212> TYPE: PRT
 10948 <213> ORGANISM: Homo sapiens
 10950 <400> SEQUENCE: 537
 10951 Met Leu Pro Val Tyr Gln Glu Val Lys Pro Asn Pro Leu Gln Asp Ala
 10952 5 10 15
 10954 Asn Leu Cys Ser Arg Val Phe Phe Trp Trp Leu Asn Pro Leu Phe Lys
 10955 20 25 30
 10957 Ile Gly His Lys Arg Arg Leu Glu Glu Asp Asp Met Tyr Ser Val Leu
 10958 35 40 45
 10960 Pro Glu Asp Arg Ser Gln His Leu Gly Glu Glu Leu Gln Gly Phe Trp
 10961 50 55 60
 10963 Asp Lys Glu Val Leu Arg Ala Glu Asn Asp Ala Gln Lys Pro Ser Leu
 10964 65 70 75 80
 10966 Thr Arg Ala Ile Ile Lys Cys Tyr Trp Lys Ser Tyr Leu Val Leu Gly
 10967 85 90 95
 10969 Ile Phe Thr Leu Ile Glu Glu Ser Ala Lys Val Ile Gln Pro Ile Phe
 10970 100 105 110

RAW SEQUENCE LISTING

DATE: 11/16/2000

PATENT APPLICATION: US/09/593,793A

TIME: 14:38:53

Input Set : A:\427c15.app

Output Set: N:\CRF3\11162000\I593793A.raw

```

10972 Leu Gly Lys Ile Ile Asn Tyr Phe Glu Asn Tyr Asp Pro Met Asp Ser
10973      115      120      125
10975 Val Ala Leu Asn Thr Ala Tyr Ala Tyr Ala Thr Val Leu Thr Phe Cys
10976      130      135      140
10978 Thr Leu Ile Leu Ala Ile Leu His His Leu Tyr Phe Tyr His Val Gln
10979 145      150      155      160
10981 Cys Ala Gly Met Arg Leu Arg Val Ala Met Cys His Met Ile Tyr Arg
10982      165      170      175
10984 Lys Ala Leu Arg Leu Ser Asn Met Ala Met Gly Lys Thr Thr Thr Gly
10985      180      185      190
10987 Gln Ile Val Asn Leu Leu Ser Asn Asp Val Asn Lys Phe Asp Gln Val
10988      195      200      205
10990 Thr Val Phe Leu His Phe Leu Trp Ala Gly Pro Leu Gln Ala Ile Ala
10991      210      215      220
10993 Val Thr Ala Leu Leu Trp Met Glu Ile Gly Ile Ser Cys Leu Ala Gly
10994 225      230      235      240
10996 Met Ala Val Leu Ile Ile Leu Leu Pro Leu Gln Ser Cys Phe Gly Lys
10997      245      250      255
10999 Leu Phe Ser Ser Leu Arg Ser Lys Thr Ala Thr Phe Thr Asp Ala Arg
11000      260      265      270
11002 Ile Arg Thr Met Asn Glu Val Ile Thr Gly Ile Arg Ile Ile Lys Met
11003      275      280      285
11005 Tyr Ala Trp Glu Lys Ser Phe Ser Asn Leu Ile Thr Asn Leu Arg Lys
11006      290      295      300
11008 Lys Glu Ile Ser Lys Ile Leu Arg Ser Ser Cys Leu Arg Gly Met Asn
11009 305      310      315      320
11011 Leu Ala Ser Phe Phe Ser Ala Ser Lys Ile Ile Val Phe Val Thr Phe
11012      325      330      335
11014 Thr Thr Tyr Val Leu Leu Gly Ser Val Ile Thr Ala Ser Arg Val Phe
11015      340      345      350
11017 Val Ala Val Thr Leu Tyr Gly Ala Val Arg Leu Thr Val Thr Leu Phe
11018      355      360      365
11020 Phe Pro Ser Ala Ile Glu Arg Val Ser Glu Ala Ile Val Ser Ile Arg
11021      370      375      380
11023 Arg Ile Gln Thr Phe Leu Leu Asp Glu Ile Ser Gln Arg Asn Arg
11024 385      390      395      400
11026 Gln Leu Pro Ser Asp Gly Lys Lys Met Val His Val Gln Asp Phe Thr
11027      405      410      415
11029 Ala Phe Trp Asp Lys Ala Ser Glu Thr Pro Thr Leu Gln Gly Leu Ser
11030      420      425      430
11032 Phe Thr Val Arg Pro Gly Glu Leu Leu Ala Val Val Gly Pro Val Gly
11033      435      440      445
11035 Ala Gly Lys Ser Ser Leu Leu Ser Ala Val Leu Gly Glu Leu Ala Pro
11036      450      455      460
11038 Ser His Gly Leu Val Ser Val His Gly Arg Ile Ala Tyr Val Ser Gln
11039 465      470      475      480
11041 Gln Pro Trp Val Phe Ser Gly Thr Leu Arg Ser Asn Ile Leu Phe Gly
11042      485      490      495
11044 Lys Lys Tyr Glu Lys Glu Arg Tyr Glu Lys Val Ile Lys Ala Cys Ala

```

RAW SEQUENCE LISTING

DATE: 11/16/2000

PATENT APPLICATION: US/09/593,793A

TIME: 14:38:53

Input Set : A:\427c15.app

Output Set: N:\CRF3\11162000\I593793A.raw

```

11045          500          505          510
11047 Leu Lys Lys Asp Leu Gln Leu Leu Glu Asp Gly Asp Leu Thr Val Ile
11048          515          520          525
11050 Gly Asp Arg Gly Thr Thr Leu Ser Gly Gly Gln Lys Ala Arg Val Asn
11051 - - - 530 - - - - - 535 - - - - - 540 - - - - -
11053 Leu Ala Arg Ala Val Tyr Gln Asp Ala Asp Ile Tyr Leu Leu Asp Asp
11054 545          550          555          560
11056 Pro Leu Ser Ala Val Asp Ala Glu Val Ser Arg His Leu Phe Glu Leu
11057          565          570          575
11059 Cys Ile Cys Gln Ile Leu His Glu Lys Ile Thr Ile Leu Val Thr His
11060          580          585          590
11062 Glu Leu Gln Tyr Leu Lys Ala Ala Ser Glu Ile Leu Ile Leu Lys Asp
11063          595          600          605
11065 Gly Lys Met Val Gln Lys Gly Thr Tyr Thr Glu Phe Leu Lys Ser Gly
11066          610          615          620
11068 Ile Asp Phe Gly Ser Leu Leu Lys Lys Asp Asn Glu Glu Ser Glu Gln
11069 625          630          635          640
11071 Pro Pro Val Pro Gly Thr Pro Thr Leu Arg Asn Arg Thr Phe Ser Glu
11072          645          650          655
11074 Ser Ser Val Trp Ser Gln Gln Ser Ser Arg Pro Ser Leu Lys Asp Gly
11075          660          665          670
11077 Ala Leu Glu Ser Gln Asp Thr Glu Asn Val Pro Val Thr Leu Ser Glu
11078          675          680          685
11080 Glu Asn Arg Ser Glu Gly Lys Val Gly Phe Glu Ala Tyr Lys Asn Tyr
11081          690          695          700
11083 Phe Arg Ala Gly Ala His Trp Ile Val Phe Ile Phe Leu Ile Leu Leu
11084 705          710          715          720
11086 Asn Thr Ala Ala Gln Val Ala Tyr Val Leu Gln Asp Trp Trp Leu Ser
11087          725          730          735
11089 Tyr Trp Ala Asn Lys Gln Ser Met Leu Asn Val Thr Val Asn Gly Gly
11090          740          745          750
11092 Gly Asn Val Thr Glu Lys Leu Asp Leu Asn Trp Tyr Leu Gly Ile Tyr
11093          755          760          765
11095 Ser Gly Leu Thr Val Ala Thr Val Leu Phe Gly Ile Ala Arg Ser Leu
11096          770          775          780
11098 Leu Val Phe Tyr Val Leu Val Asn Ser Ser Gln Thr Leu His Asn Lys
11099 785          790          795          800
11101 Met Phe Glu Ser Ile Leu Lys Ala Pro Val Leu Phe Phe Asp Arg Asn
11102          805          810          815
11104 Pro Ile Gly Arg Ile Leu Asn Arg Phe Ser Lys Asp Ile Gly His Leu
11105          820          825          830
11107 Asp Asp Leu Leu Pro Leu Thr Phe Leu Asp Phe Ile Gln Thr Leu Leu
11108          835          840          845
11110 Gln Val Val Gly Val Val Ser Val Ala Val Ala Val Ile Pro Trp Ile
11111          850          855          860
11113 Ala Ile Pro Leu Val Pro Leu Gly Ile Ile Phe Ile Phe Leu Arg Arg
11114 865          870          875          880
11116 Tyr Phe Leu Glu Thr Ser Arg Asp Val Lys Arg Leu Glu Ser Thr Thr
11117          885          890          895

```

RAW SEQUENCE LISTING

DATE: 11/16/2000

PATENT APPLICATION: US/09/593,793A

TIME: 14:38:53

Input Set : A:\427c15.app

Output Set: N:\CRF3\11162000\I593793A.raw

```

11119 Arg Ser Pro Val Phe Ser His Leu Ser Ser Ser Leu Gln Gly Leu Trp
11120                               900                               905                               910
11122 Thr Ile Arg Ala Tyr Lys Ala Glu Glu Arg Cys Gln Glu Leu Phe Asp
11123                               915                               920                               925
11125 Ala His Gln Asp Leu His Ser Glu Ala Trp Phe Leu Phe Leu Thr Thr
11126                               930                               935                               940
11128 Ser Arg Trp Phe Ala Val Arg Leu Asp Ala Ile Cys Ala Met Phe Val
11129 945                               950                               955                               960
11131 Ile Ile Val Ala Phe Gly Ser Leu Ile Leu Ala Lys Thr Leu Asp Ala
11132                               965                               970                               975
11134 Gly Gln Val Gly Leu Ala Leu Ser Tyr Ala Leu Thr Leu Met Gly Met
11135                               980                               985                               990
11137 Phe Gln Trp Cys Val Arg Gln Ser Ala Glu Val Glu Asn Met Met Ile
11138                               995                               1000                               1005
11140 Ser Val Glu Arg Val Ile Glu Tyr Thr Asp Leu Glu Lys Glu Ala Pro
11141                               1010                               1015                               1020
11143 Trp Glu Tyr Gln Lys Arg Pro Pro Pro Ala Trp Pro His Glu Gly Val
11144 1025                               1030                               1035                               1040
11146 Ile Ile Phe Asp Asn Val Asn Phe Met Tyr Ser Pro Gly Gly Pro Leu
11147                               1045                               1050                               1055
11149 Val Leu Lys His Leu Thr Ala Leu Ile Lys Ser Gln Glu Lys Val Gly
E--> 11150                               1060                               1065                               1070
11152 Ile Val Gly Arg Thr Gly Ala Gly Lys Ser Ser Leu Ile Ser Ala Leu
11153                               1075                               1080                               1085
11155 Phe Arg Leu Ser Glu Pro Glu Gly Lys Ile Trp Ile Asp Lys Ile Leu
11156                               1090                               1095                               1100
11158 Thr Thr Glu Ile Gly Leu His Asp Leu Arg Lys Lys Met Ser Ile Ile
11159 1105                               1110                               1115                               1120
11161 Pro Gln Glu Pro Val Leu Phe Thr Gly Thr Met Arg Lys Asn Leu Asp
11162                               1125                               1130                               1135
11164 Pro Phe Asn Glu His Thr Asp Glu Glu Leu Trp Asn Ala Leu Gln Glu
11165                               1140                               1145                               1150
11167 Val Gln Leu Lys Glu Thr Ile Glu Asp Leu Pro Gly Lys Met Asp Thr
11168                               1155                               1160                               1165
11170 Glu Leu Ala Glu Ser Gly Ser Asn Phe Ser Val Gly Gln Arg Gln Leu
11171                               1170                               1175                               1180
11173 Val Cys Leu Ala Arg Ala Ile Leu Arg Lys Asn Gln Ile Leu Ile Ile
11174 1185                               1190                               1195                               1200
11176 Asp Glu Ala Thr Ala Asn Val Asp Pro Arg Thr Asp Glu Leu Ile Gln
11177                               1205                               1210                               1215
11179 Lys Lys Ser Gly Arg Asn Leu Pro Thr Ala Pro Cys
11180                               1220                               1225

```

VERIFICATION SUMMARY

DATE: 11/16/2000

PATENT APPLICATION: US/09/593,793A

TIME: 14:38:56

Input Set : A:\427c15.app

Output Set: N:\CRF3\11162000\I593793A.raw

L:26 M:270 C: Current Application Number differs, Wrong Format
L:27 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:53 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:54 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:55 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:56 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:57 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:79 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:80 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:81 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:82 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:83 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:100 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:103 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:105 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:106 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:107 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:108 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:126 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:127 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:128 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:129 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:130 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:131 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:132 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:133 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:134 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:158 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:159 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:160 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:184 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
L:185 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
L:186 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
L:203 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
L:207 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
L:208 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
L:209 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
L:210 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
L:211 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
L:212 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
L:229 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8
L:230 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8
L:231 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8
L:232 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8
L:233 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8
L:234 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8
L:235 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8
L:236 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8

VERIFICATION SUMMARY

DATE: 11/16/2000

PATENT APPLICATION: US/09/593,793A

TIME: 14:38:56

Input Set : A:\427c15.app

Output Set: N:\CRF3\11162000\I593793A.raw

L:237 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8

L:238 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8

L:252 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9

L:254 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9

L:11150 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:537